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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,106	10/804,106 03/19/2004		Hiroshi Morita	520.43627X00	7094
20457	7590	06/15/2005		EXAM	INER
ANTONE	LLI, TER	RY, STOUT & K	SHRIVASTAV, BRIJ B		
1300 NORT	'H SEVEN	TEENTH STREET	·		
SUITE 1800				ART UNIT	PAPER NUMBER
ARLINGTON VA 22209-3873				2850	

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		AK					
•	Application No.	Applicant(s)					
Office Action Summary	10/804,106	MORITA ET AL.					
Onice Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication	Brij B. Shrivastav	2859					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	tn the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a real of the provided for reply is specified above, the maximum statutory perions are provided by the office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a r reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 15	March 2004.						
2a) ☐ This action is FINAL . 2b) ☑ TI	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	er Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims							
 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1 and 4</u> is/are rejected. 7) ☒ Claim(s) <u>2 and 3</u> is/are objected to. 	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1 and 4 is/are rejected. Claim(s) 2 and 3 is/are objected to.						
Application Papers							
9)☐ The specification is objected to by the Exami	iner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) Ine oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	ummary (PTO-413) s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>May 6, 2004</u> . من المرابعة	08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152)					

DETAILED ACTION

1. The Notice of Allowability dated May 17, 2005, allowing claims 1-4 is vacated, in view of newly found art. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kus et al. Superconducting properties of MgB2 thin films prepared on flexible plastic substrates; Applied Physics Letters, <u>81</u> September 16, (2002).

As regards to claim 1, Kus et al teach a superconductor (a thin film) formed from a conductor made of magnesium 2-boride formed on the surface of a substrate made of a flexible organic polymer material (polyamide Kapton-E; page 1, column 2; abstract).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kus et al as applied to claim1 above, and further in view of Tanaka et al; Physica C 382 (2002) 203-206.

As regards to claim 4, Kus et al do not teach a solenoidal coil made of MgB2 high temperature superconducting material. Tanaka et al teach a solenoidal coil made of MgB2 high temperature superconducting material (figure 4). It would have been obvious to one of ordinary skill in the art to adapt Tanaka et al's teaching with the teaching of Kus et al to improve RF field uniformity improving image quality.

- 3. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B. Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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Art Unit: 2859

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

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June 8, 2005

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